

Dear STIC Searchers:

Please search for a composition comprising:

- (1) adenosine monophosphate or salt thereof
- (2) uridine monophosphate or salt thereof

Earliest Priority Date 4/9/2002

=> fil reg
 FILE 'REGISTRY' ENTERED AT 19:01:27 ON 30 JUN 2008
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STRUCTURE FILE UPDATES: 29 JUN 2008 HIGHEST RN 1031692-95-1
 DICTIONARY FILE UPDATES: 29 JUN 2008 HIGHEST RN 1031692-95-1

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
 => e uridine monophosphate/cn
 E1 1 UDR 686/CN
 E2 1 UDR-RF/CN
 E3 0 --> URIDINE MONOPHOSPHATE/CN
 E4 1 UDYLITE 2KL/CN
 E5 1 UDYLITE 4/CN
 E6 1 UDYLITE 61/CN
 E7 1 UDYLITE 610/CN
 E8 1 UDYLITE 61HS/CN
 E9 1 UDYLITE 62/CN

E10 1 UDYLITE 63/CN
E11 1 UDYLITE 7/CN
E12 1 UDYLITE 76BRN/CN

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L2 1 SEA FILE=REGISTRY ABB=ON PLU=ON "ADENOSINE MONOPHOSPHATE"/CN
L3 2 SEA FILE=REGISTRY ABB=ON PLU=ON "URIDINE MONOPHOSPHATE"/CN
OR "URIDINE MONOPHOSPHATE SODIUM SALT"/CN
L4 SEL PLU=ON L2 1- CHEM : 28 TERMS
L5 102625 SEA FILE=HCAPLUS ABB=ON PLU=ON L4
L6 102637 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ADENOSINE (A) MONOPHOSPHAT
E
L7 SEL PLU=ON L3 1- CHEM : 20 TERMS
L8 8105 SEA FILE=HCAPLUS ABB=ON PLU=ON L7
L9 8119 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 OR (UDRIDINE OR URIDINE) (A)
MONOPHOSPHATE
L11 2375343 SEA FILE=HCAPLUS ABB=ON PLU=ON COMPOSITION/CV OR COMPOSITION
L15 190 SEA FILE=HCAPLUS ABB=ON PLU=ON L6(L) L9(L) L11
L16 183 SEA FILE=HCAPLUS ABB=ON PLU=ON L15 AND PD=<MAY 9, 2002
L17 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L16 AND PATENT/DT

=> d bib abs hitstr 117 1-9

L17 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2008 ACS ON STN
ACCESSION NUMBER: 1998:498595 HCAPLUS Full-text
DOCUMENT NUMBER: 129:127174
ORIGINAL REFERENCE NO.: 129:25943a,25946a
TITLE: Nucleotide-containing compositions and foods for
improvement of emotional disorders
INVENTOR(S): Hashigaya, Mari; Yokogoshi, Hidehiko; Imaizumi,
Masahiro
PATENT ASSIGNEE(S): Yamasa Shoyu Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10203989	A	19980804	JP 1997-27178	19970127 <--
JP 3343487	B2	20021111		
PRIORITY APPLN. INFO.:			JP 1997-27178	19970127

AB Nucleotide-containing compns., foods, and beverages are useful for treatment
of emotional disorders caused by e.g. depression and anxiety. Oral
administration of 1:1:1:1:1 S'-AMP-2Na:5'-GMP-2Na:5'-IMP-2Na:5'- UMP-2Na:5'-
CMP-2Na showed anxiolytic activity in mice by light/dark test.

L17 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2008 ACS ON STN
ACCESSION NUMBER: 1998:38532 HCAPLUS Full-text
DOCUMENT NUMBER: 128:101381
ORIGINAL REFERENCE NO.: 128:19857a,19860a
TITLE: Nucleic acid-related substance-containing nutrient

compositions
 INVENTOR(S): Nanitoku, Akima; Kanno, Takahiro; Yonekubo, Akinari;
 Kuwata, Tamotsu
 PATENT ASSIGNEE(S): Meiji Milk Products, Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10004918	A	19980113	JP 1996-177226	19960619 <--
JP 3576318	B2	20041013		

PRIORITY APPLN. INFO.: JP 1996-177226 19960619

AB The comps. having activities to increase lipids, proteins, cholesterol, and/or nucleic acids in biomembranes, contain nucleic acids, docosahexaenoic acid (I), arachidonic acid (II), and cholesterol (III) as active ingredients. Alternatively, the comps. contain cytidine monophosphate (CMP) 5-10, uridine monophosphate (UMP) 2-4, adenosine monophosphate (AMP) 0-4, guanosine monophosphate (GMP) 1-3, and/or inosine monophosphate (IMP) 2-4 mg (based on 100 g powders) and edible oils containing II 4.9-60, I 24.5-250, and III 56-90 mg (based on 100 g powders). The comps. are useful as foods, beverages, and medical preps. for humans and animals. Rats were fed with a composition containing 0.07% II, 0.31% I, and III 12.0, CMP 6.01, UMP 3.85, AMP 0.21, GMP 1.55, and IMP 3.07 mg/100 g for 3 wk. II content in the phosphatidylcholine fraction of erythrocyte membrane of the rats was significantly higher than that of control groups fed without nucleic acids.

L17 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1996:435270 HCAPLUS Full-text
 DOCUMENT NUMBER: 125:80533
 ORIGINAL REFERENCE NO.: 125:15135a
 TITLE: Reverse transcriptase preservation composition to improve enzyme stability during storage
 Odawara, Fumitomo
 INVENTOR(S): Asahi Kasei Kogyo Kabushiki Kaisha, Japan
 PATENT ASSIGNEE(S): PCT Int. Appl., 41 pp.
 SOURCE: CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9615235	A1	19960523	WO 1995-JP2304	19951110 <--
W: US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 08131171	A	19960528	JP 1994-277618	19941111 <--
EP 791650	A1	19970827	EP 1995-936773	19951110 <--
EP 791650	B1	20040317		
R: DE, FR, IT				
US 5935834	A	19990810	US 1997-836380	19970507 <--
PRIORITY APPLN. INFO.:			JP 1994-277618	A 19941111
			WO 1995-JP2304	W 19951110

AB A composition for stably preserving reverse transcriptase is provided, which is comprised of trehalose, divalent cations, and nucleic acid selected from the transcription initiation site. The composition can be stably preserved for long time at 4 °C. Further, it is lowly viscous, can be dispensed in a given quantity accurately, and can be used in various expts. with a high reproducibility. Hence it is useful as a standard reference material for quantifying viruses with the reverse transcriptase activity serving as the indicator. A composition containing trehalose, MgCl₂, and the oligo dT12-18-Poly A hybrid for preserving HIV-1 reverse transcriptase is disclosed.

L17 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:729068 HCAPLUS Full-text
 DOCUMENT NUMBER: 123:123165
 ORIGINAL REFERENCE NO.: 123:21717a,21720a
 TITLE: nutrient compositions containing nucleic acid and other ingredients for immune enhancement
 INVENTOR(S): Yan, Huaiwei
 PATENT ASSIGNEE(S): Peop. Rep. China
 SOURCE: Faming Zhuanli Shengqing Gongkai Shuomingshu, 16 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1097598	A	19950125	CN 1994-111754	19940519 <--
CN 1048400	B	20000119		

PRIORITY APPLN. INFO.: CN 1994-111754 19940519

AB Nutrient compos. for immune enhancement contain AMP 0-3.5, GMP 0-3.6, IMP 0-3.5, inosine 0-2.7, UMP 0-3.2, CMP 0-3.2, folic acid 0-0.1, vitamin B12 0-0.01, Na selenite 0.0,01, vitamin C 0-0.5, and zinc sulfate 0-0.2 parts. The preps. are especially useful for immune enhancement and growth promotion in infants.

L17 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:274951 HCAPLUS Full-text
 DOCUMENT NUMBER: 122:64335
 ORIGINAL REFERENCE NO.: 122:12179a,12182a
 TITLE: antitumor compositions containing nucleic acid copolymer and lipid device
 INVENTOR(S): Yano, Junichi; Ohgi, Tadaaki
 PATENT ASSIGNEE(S): Nippon Shinyaku Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 85 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9418987	A1	19940901	WO 1994-JP238	19940217 <--
W: AU, BR, CA, CN, FI, HU, JP, KR, NO, NZ, RU, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

CA 2156288	A1	19940901	CA 1994-2156288	19940217 <--
CA 2156288	C	20051018		
CA 2156289	A1	19940901	CA 1994-2156289	19940217 <--
CA 2156289	C	20060103		
AU 9460450	A	19940914	AU 1994-60450	19940217 <--
EP 685234	A1	19951206	EP 1994-907061	19940217 <--
EP 685234	B1	20000510		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT, SE				
RU 2143903	C1	20000110	RU 1995-121696	19940217 <--
ES 2142934	T3	20000501	ES 1994-907060	19940217 <--
AT 192657	T	20000515	AT 1994-907061	19940217 <--
JP 3189279	B2	20010716	JP 1994-518815	19940217 <--
US 5705188	A	19980106	US 1995-507269	19951010 <--
PRIORITY APPLN. INFO.:			JP 1993-54939	A 19930219
			WO 1994-JP238	W 19940217

OTHER SOURCE(S): MARPAT 122:64335

AB Pharmaceutical ~~compos.~~ comprise a single-stranded nucleic acid copolymer, especially poly(adenylic acid-uridylic acid), and a lipid device [such as lipofecting (com. product) on a mixture containing phospholipid and glycerol derivs. such as 3-O-(4-dimethylaminobutanoyl)-1,2-O- diolelylglycerol]. The lipid device promoted the entrance of single-stranded nucleic acid into tumor cells to induce interferon activity. As a result, the nucleic acid copolymer acted as neoplasm inhibitor. An injection was formulated containing poly(adenylic acid-uridylic acid) and the lipid device is saline.

L17 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:418112 HCAPLUS Full-text

DOCUMENT NUMBER: 121:18112

ORIGINAL REFERENCE NO.: 121:3327a,3330a

TITLE: nucleic acid compositions as neoplasm inhibitors,

antiaging agents, and immunostimulants

INVENTOR(S): Yan, Huaiwei; Yi, Min; Yan, Huaqi

PATENT ASSIGNEE(S): Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 22 pp.

CODEN: CNXKEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1077629	A	19931027	CN 1993-110925	19930327 <--
CN 1064233	B	20010411		

PRIORITY APPLN. INFO.: CN 1993-110925 19930327

AB The title ~~compos.~~ are manufactured by extracting RNA from yeasts and DNA from pollens and hydrolysis of the RNA and DNA. The preps.(e.g. injections) contain RNA 0-75, DNA 0-25, AMP, CMP, GMP and dMP 0-75, and dAMP, dCMP, dGMP and dTMP 0-25 parts. The ~~compos.~~ also can be incorporated into foods.

L17 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:600878 HCAPLUS Full-text

DOCUMENT NUMBER: 103:200878

ORIGINAL REFERENCE NO.: 103:32311a,32314a

TITLE: Oral or parenteral nutrient compositions containing nucleic acid bases, nucleosides and nucleotides

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Factory, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60126220	A	19850705	JP 1983-233142	19831209 <--
JP 05034337	B	19930521		
GB 2152814	A	19850814	GB 1984-30577	19841204 <--
GB 2152814	B	19871209		
CA 1258632	A1	19890822	CA 1984-469297	19841204 <--
DK 8405856	A	19850610	DK 1984-5856	19841207 <--
DK 166601	B1	19930621		
EP 149775	A1	19850731	EP 1984-114914	19841207 <--
EP 149775	B1	19900221		
R: DE, NL, SE				
FR 2560045	A1	19850830	FR 1984-18726	19841207 <--
FR 2560045	B1	19880819		
CH 671497	A5	19890915	CH 1984-5856	19841207 <--
US 4758553	A	19880719	US 1987-104550	19870930 <--
JP 05320052	A	19931203	JP 1992-324216	19921203 <--
JP 06062422	B	19940817		
PRIORITY APPLN. INFO.:			JP 1983-233142	A 19831209
			US 1984-680111	A1 19841210

AB Oral or parenteral nutrient compns. contain ≥ 2 nucleic acid bases, nucleosides and nucleotides. Thus, 5'-AMP di-Na salt [4578-31-8] 59.8, 5'-CMP di-Na salt [6757-06-8] 59.9, 5'-GMP di-Na salt [5550-12-9] 59.9, 5'-UMP di-Na salt [3387-36-8] 44.8 and thymidine [50-89-5] 14.9 mmol/L were mixed and dissolved in injection water, followed by addition of NaHSO₃ (stabilizer), pH adjustment (to .apprx.7.4), aseptic filtration and filling into vials.

L17 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1966:22870 HCAPLUS Full-text
 DOCUMENT NUMBER: 64:22870
 ORIGINAL REFERENCE NO.: 64:4230g-h, 4231a
 TITLE: Microbial production of nucleotides
 INVENTOR(S): Masuo, Eitaro; Okabayashi, Tadashi
 PATENT ASSIGNEE(S): Shionogi & Co., Ltd.
 SOURCE: 10 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 40010957	B4	19650601	JP	19591214 <--
PRIORITY APPLN. INFO.:			JP	19591214

AB Some bacteria strains of high nucleotide-forming activity were detected based on the results of the test developed by the authors, and compns. of media for promoting accumulation of nucleotides were also investigated. To evaluate the nucleotide-forming activity of bacteria, cells of nonexacting purine (I) auxotrophic mutant B 96 of Escherichia coli were mixed into the synthetic

medium containing no I for testing strains. The activity of nucleotide accumulation of the strains increased as the growth of the mutant increased. By this procedure, the following strains were found to be suitable for nucleotide production: *Bacillus subtilis* IFO 3061, *B. firmus* IFO 3330, *B. circulans* IFO 3342, *B. megaterium* IFO 3003, *Alcaligenes viscosus* AN-14, *A. metalcaligenes* 1021, *Serratia marcescens* 1008, *S. plymuthica* IFO 3055, *Bacterium ketoglutaricum* 1041, and new species of *Brevibacterium* and *Corynebacterium*. For promoting nucleotide production with these strains, amino acids, especially L-glutamic acid (II), are necessary in the medium. Proteins or peptides containing II are also effective for the strains having sufficient protease. Sufficient content of P043- at pH 5.0-7.5 is also necessary for the medium. By cultivation under these conditions, AMP, CDP, UMP, and UDP are obtained.

L17 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1962:464986 HCAPLUS Full-text
 DOCUMENT NUMBER: 57:64986
 ORIGINAL REFERENCE NO.: 57:12974e-i,12975a-b
 TITLE: Cow milk composition
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd.
 SOURCE: 28 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 612055		19620115	BE	<--
PRIORITY APPLN. INFO.:			JP	19601229

AB A new cow milk composition of improved taste is described, useful as an infant food, or as an ice cream. Features of the invention are (A) addition of nucleotides such as cytidine 5'-monophosphate (CMP), adenosine 5'-monophosphate (AMP), guanosine 5'-monophosphate (GMP), uridine 5'-monophosphate (UMP), uridine 5'-diphosphate-N-acetyl-lactosamine fucose, guanosine 5'-diphosphate mannose; (B) addition of carbohydrates such as α -lactose, β -lactose, sucrose, maltose, dextrin, etc.; (C) addition of vitamins such as vitamins A and D; (D) addition of amino acids such as L-lysine and L-methionine. Hydrolysis of nucleotides to nucleosides is prevented by the addition of phosphatase inhibitors such as arsenate, phosphate, cyanate, or phenol, and (or) by gentle heating. The nucleotides required may be prepared (1) by hydrolysis of nucleic acids from animal tissues, or (2) by the action of enzymes from microorganisms, snake-venom, or bovine intestines, but are preferably prepared by the action of enzymes from Actinomycetes, Fungi Imperfecti, or bacteria. Thus, the organism *Streptomyces aureus* ATCC-13404 is incubated at pH 7.0, 2-3 days at 28°, in a nutritive medium containing soluble starch 4, peptone 1, meat extract 1, dried yeast 0.2, K₂HPO₄ 0.1, and NaCl 0.5%. The culture filtrate is adjusted to pH 4.0, heated to 50° for 1 min., and raised quickly to pH 7.0. Dried yeast (10 kg.) is added to 25 l. of this solution, and 20 l. of water to keep the yeast in suspension. The pH is then raised to 8.0, the suspension is allowed to stand 16 hrs. at 37°, and the cells are removed by centrifugation or filtration. The solution containing the nucleotides so prepared is passed through a column of active wood charcoal, which on elution gives nucleotide fractions containing UMP, CMP, GMP, and AMP. These are neutralized with NaOH, and concentrated to give the corresponding disodium salts. A mixture containing crude cow milk, sucrose,

β -lactose, and mineral substances is boiled, condensed under pressure, and dried by powdering. β -Lactose, 20 kg., disodium CMP 9 g., disodium GMP 180 mg., disodium UMP 900 mg., disodium AMP 500 mg., guanosine diphosphate 300 mg., and uridine diphosphate N-acetylglucosamine 1.2 g. are added to form a homogeneous mixture. The above milk powder (80 kg.), and 20 kg. of the mixture of β -lactose and nucleotides, are mixed to give a cow milk preparation similar to human milk. In 16 other examples, similar cow milk compositions are prepared, using various combinations of nucleotides, and various organisms, such as *S. griseus* ATCC-10137, *S. aureus* ATCC-13404, *S. coelicolor* ATCC-13405, *Bacillus brevis* ATCC-8185, *Anixiella reticulisporea* ATCC-13828.

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L2 1 SEA FILE=REGISTRY ABB=ON PLU=ON "ADENOSINE MONOPHOSPHATE"/CN

L3 2 SEA FILE=REGISTRY ABB=ON PLU=ON "URIDINE MONOPHOSPHATE"/CN
OR "URIDINE MONOPHOSPHATE SODIUM SALT"/CN
SEL PLU=ON L2 1- CHEM : 28 TERMS

L4 102625 SEA FILE=HCAPLUS ABB=ON PLU=ON L4

L5 102637 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ADENOSINE(A)MONOPHOSPHAT
E

L6 SEL PLU=ON L3 1- CHEM : 20 TERMS

L7 8105 SEA FILE=HCAPLUS ABB=ON PLU=ON L7

L8 8119 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 OR (UDRIDINE OR URIDINE) (A)
MONOPHOSPHATE

L9 2375343 SEA FILE=HCAPLUS ABB=ON PLU=ON COMPOSITION/CV OR COMPOSITION

L11

L15 190 SEA FILE=HCAPLUS ABB=ON PLU=ON L6(L)L9(L)L11

L16 183 SEA FILE=HCAPLUS ABB=ON PLU=ON L15 AND PD=<MAY 9, 2002

L17 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L16 AND PATENT/DT

L18 2438 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 (5A)COMPOSITION

L19 66 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 (5A)COMPOSITION

L20 31 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND L23

L21 27 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 NOT L17

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L25 ANSWER 1 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1373875 HCAPLUS Full-text

DOCUMENT NUMBER: 148:138686

TITLE: RNA analysis by MEKC with LIF detection

AUTHOR(S): Cornelius, Michael G.; Schmeiser, Heinz H.

CORPORATE SOURCE: Division of Molecular Toxicology, German Cancer
Research Center, Heidelberg, Germany

SOURCE: Electrophoresis (2007), 28(21), 3901-3907

CODEN: ELCTDN; ISSN: 0173-0835

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

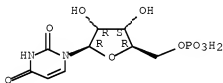
LANGUAGE: English

AB The authors have developed and validated a procedure of high sensitivity for the anal. of RNA. The procedure is based on the separation and detection of the 5'-monophosphates of ribonucleosides selectively conjugated with 4,4'-difluoro-5,7-dimethyl-4-bora-3a,4a-diaza-s-indacene-3-propionyl ethylene diamine hydrochloride (BODIPY FL EDA) at the 5'-phosphate group using CE with LIF. BODIPY conjugates of the four common ribonucleoside-5'-monophosphates

were prepared and subjected to CE-LIF to serve as standard compds. for peak assignment and to develop separation conditions. After digestion of RNA or oligoribonucleotides to 5'-monophosphates by nuclease P1 and fluorescence labeling BODIPY conjugates were detected and resolved by CE-LIF without further purification steps. Comparative CE-LIF analyses with DNA digested to deoxyribonucleoside-5'-monophosphates showed that the assay is equally efficient and sensitive for RNA anal. Conditions to determine the modified ribonucleosides inosine, xanthosine, pseudouridine and 2'-O-methyladenosine were also established. The limits of detection were in the range of 80-200 pM. After calibrating the assay with oligoribonucleotides, pseudouridine was quantified in total RNA of *Drosophila*, human liver, human kidney and tRNA of *Saccharomyces cerevisiae*. These studies demonstrate good potential of fluorescence labeling of ribonucleoside-5'-monophosphates with BODIPY FL EDA and detection by CE-LIF to determine RNA composition with high accuracy and sensitivity.

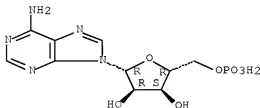
IT 58-97-9, 5' UMP, analysis 61-19-8,
5' AMP, analysis
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(RNA composition anal. by micellar electrokinetic chromatog. with laser-induced fluorescence detection using nuclease P1 digestion and BODIPY FL EDA)
RN 58-97-9 HCAPLUS
CN 5'-Uridylic acid (CA INDEX NAME)

Absolute stereochemistry.



RN 61-19-8 HCAPLUS
CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L25 ANSWER 2 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:1364352 HCAPLUS [Full-text](#)
DOCUMENT NUMBER: 148:32596
TITLE: Nutraceutical compositions from microalgae and related methods of production and administration

INVENTOR(S): Dillon, Harrison F.; Somanchi, Aravind; Rao, Kamalesh;
 Jones, Peter J. H.
 PATENT ASSIGNEE(S): Solazyme, Inc., USA
 SOURCE: PCT Int. Appl., 199pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007/136428	A2	2007/11/29	WO 2007-US1319	2007/01/19
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RM:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
US 20070167396	A1	2007/07/19	US 2006-336428	2006/01/19
US 20070167397	A1	2007/07/19	US 2006-336430	2006/01/19
US 20070166449	A1	2007/07/19	US 2006-336431	2006/01/19
US 20070166797	A1	2007/07/19	US 2006-336656	2006/01/19
US 20070166266	A1	2007/07/19	US 2006-337103	2006/01/19
US 20070167398	A1	2007/07/19	US 2006-337171	2006/01/19
US 20070191303	A1	2007/08/16	US 2006-336426	2006/01/19
PRIORITY APPLN. INFO.:			US 2006-336426	A 2006/01/19
			US 2006-336428	A 2006/01/19
			US 2006-336430	A 2006/01/19
			US 2006-336431	A 2006/01/19
			US 2006-336656	A 2006/01/19
			US 2006-337103	A 2006/01/19
			US 2006-337171	A 2006/01/19
			US 2006-816967P	P 2006/06/28
			US 2006-832091P	P 2006/07/20
			US 2006-838452P	P 2006/08/17
			US 2006-872072P	P 2006/11/30
AB	Polysaccharides with nutraceutical application may be obtained by culturing red microalgae and the nutraceutical compns. thus produced may comprise a carrier and homogenized microalgal cells. Addnl. components may include phytosterols, limonoids, flavonoids, and tocotrienols. The polysaccharides may be used in applications such as reducing cholesterol in mammals, inactivating viruses, stabilizing foods, etc. Thus, total serum cholesterol in an animal model (hamsters) over 30 days was decreased 35-62% by dietary inclusion of Porphyridium biomass homogenate and polysaccharide, the highest decreases being observed when phytosterols were also present. Transgenic algae may be used that are capable of utilizing fixed carbon sources for energy. Also provided are novel nucleic acid sequences from red microalgae.			

DOCUMENT NUMBER: 147:187863
 TITLE: Methods and compositions for thickening, stabilizing and emulsifying foods
 INVENTOR(S): Dillon, Harrison F.; Somanchi, Aravind; Zaman, Anwar
 PATENT ASSIGNEE(S): Solazyme, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 68pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070166449	A1	20070719	US 2006-336431	20060119
WO 2007084769	A2	20070726	WO 2007-US1653	20070119
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
WO 2007136428	A2	20071129	WO 2007-US1319	20070119
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.:

US 2006-336426	A	20060119
US 2006-336428	A	20060119
US 2006-336430	A	20060119
US 2006-336431	A	20060119
US 2006-336656	A	20060119
US 2006-337103	A	20060119
US 2006-337171	A	20060119
US 2006-816967P	P	20060628
US 2006-832091P	P	20060720
US 2006-838452P	P	20060817
US 2006-872072P	P	20061130

AB Provided herein are novel food additive polysaccharides. The polysaccharides of the invention can be used, for example to emulsify a food or to suspend compds. in a food composition. Also provided are algae capable of incorporating compds. into polysaccharides to alter the rheol. properties of the polysaccharides. Also provided are large scale, low cost methods of precipitating and purifying novel hydrocolloids.

L25 ANSWER 4 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007:542724 HCAPLUS Full-text
 DOCUMENT NUMBER: 147:16477
 TITLE: Radiation-resistant composition containing
 5'-nucleotide, vitamin C and soybean oligosaccharides
 INVENTOR(S): Zhao, Hongling; Jia, Naikun; Liu, Duohua; Li, Gaowo
 PATENT ASSIGNEE(S): Beijing Yanjing Zhongke Bio-Tech Co., Ltd., Peop. Rep.
 China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 12pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1961891	A	20070516	CN 2006-10114733	20061122
PRIORITY APPLN. INFO.:			CN 2006-10114733	20061122

AB The title radiation-resistant composition contains 5'-nucleotide 10-30, vitamin C 5-15, soybean oligosaccharide 20-40 and auxiliaries 15-65%. 5'-nucleotide is 5'-adenosine monophosphate, 5'-guanosine monophosphate, 5'-cytidine monophosphate, 5'-uridine monophosphate or their combination. The title radiation-resistant composition can be dry powder, tablet, capsule or oral solution After oral administration, the HC50 and SOD activities in serum of the subjects all increased significantly($p<0.05$); the weight bodies and other indexes had no significant changes($p>0.05$). This inventive composition has assistant protective effect from radiation with no harm to human body.

L25 ANSWER 5 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:987954 HCAPLUS Full-text
 DOCUMENT NUMBER: 145:504381
 TITLE: Non-volatile taste components of various broth cubes
 AUTHOR(S): Chiang, Pei-Dih; Yen, Chih-Tai; Mau, Jeng-Leun
 CORPORATE SOURCE: Department of Food Science and Biotechnology, National
 Chung-Hsing University, Taichung, 40227, Taiwan
 SOURCE: Food Chemistry (2006), Volume Date 2007, 101(3),
 932-937
 CODEN: FOCHDJ; ISSN: 0308-8146
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Com. soup bases, in the form of broth cubes available in the market, include chicken, mushroom, pork and seafood broth cubes. The non-volatile taste components of 4 broth cubes were studied. Equivalent umami concentration (EUC) values of these broth cubes were evaluated and compared with their sensory results from hedonic tests. Only two soluble sugars, lactose and sucrose, were found. Contents of total free amino acids and monosodium glutamate (MSG)-like components ranged from 0.51 to 1.04 mg g⁻¹ and 0.48 to 0.56 mg g⁻¹, resp. Contents of 5'-nucleotides and flavor 5'-nucleotides ranged from 2.67 to 3.66 mg g⁻¹ and 2.58 to 3.33 mg g⁻¹, resp. EUC values were low and the umami intensities of 1 gramme of 4 soup bases were equivalent to those given by 0.14-0.32 g MSG. Mushroom and pork soups were more preferred, whereas seafood soup was less preferred. Correlations of EUC values with sensory scores were established for chicken, pork and seafood soups.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 6 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:1159278 HCAPLUS Full-text

DOCUMENT NUMBER: 145:183545

TITLE: Diamagnetic susceptibilities: Base composition studies in nucleotides

AUTHOR(S): Kumar, R. Jeevan; Murthy, V. Rama; Prasad, G. V. R.

CORPORATE SOURCE: Molecular Biophysical Laboratories, Department Of Physics, Sri Krishnadevaraya University, Anantapur, 515 003, India

SOURCE: Acta Ciencia Indica, Physics (2005), 31(1), 121-123

CODEN: ACIPD2; ISSN: 0253-732X

PUBLISHER: Pragati Prakashan

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The application of mol. polarizabilities in percentage base compns. of Nucleotides was already outlined. Similarly the applications of diamagnetic susceptibilities are now extended in the study of base compns. of Nucleotides. The inferences suggest that the chargaff rule is obeyed in diamagnetic susceptibilities and it also give an alternative to Tm in evaluating the percentage composition of various of DNAs. The pos. encouragement in the results shows a prospective application of diamagnetic susceptibility studies in base compns.

IT 56-97-9, Ump, properties 61-19-8, Amp, properties

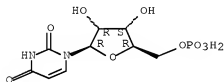
RL: PRP (Properties)

(percentage base composition evaluation in nucleotides by diamagnetic susceptibilities)

RN 58-97-9 HCAPLUS

CN 5'-Uridylic acid (CA INDEX NAME)

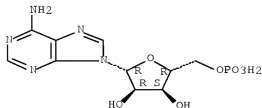
Absolute stereochemistry.



RN 61-19-8 HCAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 7 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:985305 HCAPLUS Full-text
 DOCUMENT NUMBER: 143:281053
 TITLE: Treating plants exposed to pesticides and other
 phytotoxicants with compositions containing energy
 component
 INVENTOR(S): Yamashita, Thomas T.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 25 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050197252	A1	20050908	US 2004-794187	20040304
WO 2005087691	A1	20050922	WO 2005-US7172	20050302
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2004-794187 A 20040304

AB A method of treating a plant exposed to a phytotoxicant involves identifying the exposed plant and applying a composition containing an assimilable carbon-skeleton energy component to the identified plant. The subject comps. may include one or more of a macronutrient component, micronutrient component, vitamin/cofactor component, complexing agent and microbe. Kits for use in practicing the invention and examples of soil bioremediation are also provided. Thus, strawberry plants experiencing phytotoxicity from drift of the herbicide simazine were treated with a remedial spray containing 5 gal of Green Thumb 1-0-2, 4 qt of Integrity Calcium, 3 oz of Silwet L-77, and 12 oz of Bud-Set/100 gal. The protocol was initiated eight days after drift contamination, and application of was repeated at 5-day intervals for at least 3 consecutive sprays and thereafter every 7-10 days until the vines recovered from the phytotoxicity. Normal growth was restored by the third spray; there was no mortality.

IT 58-97-9, Uridine phosphate, biological studies

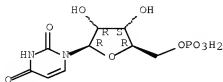
61-19-8, Adenosine phosphate, biological studies

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (comps. containing energy component for treating plants exposed
 to pesticides and other phytotoxicants)

RN 58-97-9 HCAPLUS

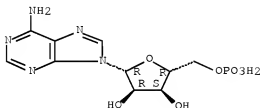
CN 5'-Uridylic acid (CA INDEX NAME)

Absolute stereochemistry.



RN 61-19-8 HCAPLUS
 CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L25 ANSWER 8 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:729512 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 143:199976
 TITLE: Dental compositions and kits containing bitterness inhibitors
 INVENTOR(S): Mitra, Sumita B.
 PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
 SOURCE: PCT Int. Appl., 26 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005072683	A1	20050811	WO 2005-US1596	20050121
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 20050203207	A1	20050915	US 2005-41114	20050121

EP 1706086 A1 20061004 EP 2005-711608 20050121
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS
 JP 2007523063 T 20070816 JP 2006-551213 20050121
 PRIORITY APPLN. INFO.: US 2004-538024P P 20040121
 WO 2005-US1596 W 20050121

AB The invention relates to dental compns., such as dental or orthodontic adhesives, dental or orthodontic cements, or impression materials, and/or kits that contain a bitterness inhibitor. The dental compns. and kits are useful for blocking the perception of bitterness caused by a bitter taste receptor. Thus, a dental cement composition contained UMP 0.51, adenosine 3',5'-cyclic monophosphate 0.60, adenosine 3',5'-cyclic monophosphate sodium salt 1.1% by weight

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 9 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:529221 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 141:93996

TITLE: Cosmetic compositions containing proteins and nucleotides for sun- and biotanning

INVENTOR(S): Thorel, Jean Noel; Redziniak, Cerard

PATENT ASSIGNEE(S): Fr.

SOURCE: Fr. Demande, 15 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2849381	A1	20040702	FR 2002-16872	20021230
FR 2849381	B1	20050225		
CA 2528101	A1	20040722	CA 2003-2528101	20031223
WO 2004060393	A2	20040722	WO 2003-FR3883	20031223
WO 2004060393	A3	20040916		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003303607	A1	20040729	AU 2003-303607	20031223
EP 1581177	A2	20051005	EP 2003-814486	20031223
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1731973	A	20060208	CN 2003-80107877	20031223
JP 2006513231	T	20060420	JP 2004-564302	20031223
US 20060029563	A1	20060209	US 2005-537816	20050607
PRIORITY APPLN. INFO.:				
			FR 2002-16871	A 20021230
			FR 2002-16872	A 20021230
			FR 2002-16873	A 20021230
			FR 2002-16874	A 20021230

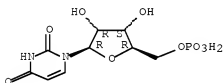
WO 2003-FR3883 W 20031223

AB A cosmetic comprises an active complex containing a peptide or a protein chosen from the group consisting of endonucleases, α -MSH, and melanostatin, and a nucleotide, polynucleotide, or nucleic acid selected from the compds., e.g., AMP, GMP, CMP, and UMP. Thus, a formulation contained Carbopol-1342R 0.3, butylene glycol 2.0, Cyclomethicone 6.0, cetyl alc. 0.5, glycerin 10, TEA 0.3, MSH 0.01, DNA 1.00, GP4G 1.00, and water qs to 100%.

IT 58-97-9, UMP, biological studies 61-19-8,
AMP, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic compns. containing proteins and nucleotides for sun-
and biotanning)

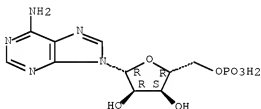
RN 58-97-9 HCAPLUS
CN 5'-Uridylic acid (CA INDEX NAME)

Absolute stereochemistry.



RN 61-19-8 HCAPLUS
CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.

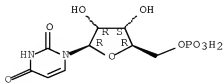


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 10 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:529217 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 141:93995
 TITLE: Cosmetic compositions containing proteins and nucleotides for cutaneous flora-regulation
 INVENTOR(S): Thorel, Jean Noel; Redziniak, Cerard
 PATENT ASSIGNEE(S): Fr.
 SOURCE: Fr. Demande, 11 pp.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

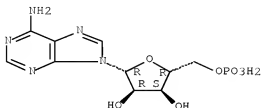
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2849377	A1	20040702	FR 2002-16874	20021230
FR 2849377	B1	20070803		
CA 2528101	A1	20040722	CA 2003-2528101	20031223
WO 2004060393	A2	20040722	WO 2003-FR3883	20031223
WO 2004060393	A3	20040916		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003303607	A1	20040729	AU 2003-303607	20031223
EP 1581177	A2	20051005	EP 2003-814486	20031223
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1731973	A	20060208	CN 2003-80107877	20031223
JP 2006513231	T	20060420	JP 2004-564302	20031223
US 20060029563	A1	20060209	US 2005-537816	20050607
PRIORITY APPLN. INFO.:				
			FR 2002-16871	A 20021230
			FR 2002-16872	A 20021230
			FR 2002-16873	A 20021230
			FR 2002-16874	A 20021230
			WO 2003-FR3883	W 20031223
AB	A cosmetic composition comprises an active complex consisting of at least a peptide or a protein chosen from nisin, N-acetylglucosamine and bactinecin, and a nucleotide, polynucleotide, or a nucleic acid, e.g., AMP, GMP, CMP, UMP, dTMP, and DNA or RNA hydrolyzates. Thus, a formulation contained EtOH 5.0, propylene glycol 2.0, Dimethicone copolyol 0.5, PPG PEG lauryl glycol ether 0.6, nisin 0.001, adenine 0.0005, cytosine 0.01, guanine 0.002, DNA 0.01, perfumes and preservatives qs, and water qs to 100%.			
IT	58-97-9, UMP, biological studies 61-19-8, AMP, biological studies			
	RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (cosmetic compns. containing proteins and nucleotides for cutaneous flora-regulation)			
RN	58-97-9 HCAPLUS			
CN	5'-Uridylic acid (CA INDEX NAME)			

Absolute stereochemistry.



RN 61-19-8 HCAPLUS
 CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 11 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:529216 HCAPLUS Full-text

DOCUMENT NUMBER: 141:93994

TITLE: Cosmetic compositions comprising an a peptide or a protein and a nucleotide, polynucleotide or nucleic acid

INVENTOR(S): Thorel, Jean Noel; Redziniak, Cerard

PATENT ASSIGNEE(S): Fr.

SOURCE: Fr. Demande, 14 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2849376	A1	20040702	FR 2002-16873	20021230
FR 2849376	B1	20070713		
CA 2528101	A1	20040722	CA 2003-2528101	20031223
WO 2004060393	A2	20040722	WO 2003-FR3883	20031223
WO 2004060393	A3	20040916		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003303607	A1	20040729	AU 2003-303607	20031223
EP 1581177	A2	20051005	EP 2003-814486	20031223
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1731973	A	20060208	CN 2003-80107877	20031223
JP 2006513231	T	20060420	JP 2004-564302	20031223
US 20060029563	A1	20060209	US 2005-537816	20050607
PRIORITY APPLN. INFO.:			FR 2002-16871	A 20021230
			FR 2002-16872	A 20021230
			FR 2002-16873	A 20021230

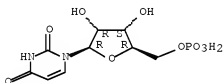
FR 2002-16874 A 20021230
WO 2003-FR3883 W 20031223

AB A cosmetic and/or dermatol. comprises an active complex of at least a peptide and/or a protein chosen from the group of, e.g., algae peptides, other peptides, Elafin, and a nucleotide or DNA. Thus, a formulation contained capric/caprylic triglyceride 10-15.00, peptide (KTTKS) 0.2-5x10⁻⁵, nucleotide 1-4x10⁻⁵, glyceryl dioleate 1-4.00, xanthan gum 0.1-1.00, NaOH 1-5, Penonip 0.50, perfume qs, and water qs to 100%.

IT 58-97-9, UMP, biological studies 61-19-8, AMP, biological studies
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
(cosmetic compns. comprising a peptide or protein and nucleotide, or nucleic acid)

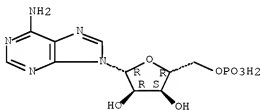
RN 58-97-9 HCAPLUS
CN 5'-Uridylic acid (CA INDEX NAME)

Absolute stereochemistry.



RN 61-19-8 HCAPLUS
CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



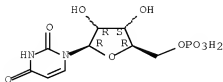
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 12 OF 27 HCAPLUS COPYRIGHT 2008 ACS ON STN
ACCESSION NUMBER: 2004:529215 HCAPLUS [Full-text](#)
DOCUMENT NUMBER: 141:93993
TITLE: Cosmetic compositions containing peptides or proteins for the treatment of photoinduced skin aging
INVENTOR(S): Thorel, Jean Noel; Redziniak, Cerard
PATENT ASSIGNEE(S): Fr.
SOURCE: Fr. Demande, 15 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French

FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

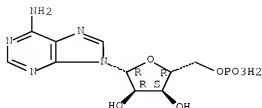
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2849375	A1	20040702	FR 2002-16871	20021230
FR 2849375	B1	20061020		
CA 2528101	A1	20040722	CA 2003-2528101	20031223
WO 2004060393	A2	20040722	WO 2003-FR3883	20031223
WO 2004060393	A3	20040916		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003303607	A1	20040729	AU 2003-303607	20031223
EP 1581177	A2	20051005	EP 2003-814486	20031223
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1731973	A	20060208	CN 2003-80107877	20031223
JP 2006513231	T	20060420	JP 2004-564302	20031223
US 20060029563	A1	20060209	US 2005-537816	20050607
PRIORITY APPLN. INFO.:				
			FR 2002-16871	A 20021230
			FR 2002-16872	A 20021230
			FR 2002-16873	A 20021230
			FR 2002-16874	A 20021230
			WO 2003-FR3883	W 20031223
AB	A cosmetic and/or dermatol. comprises an active complex, acting in a synergistic manner, of at least a peptide and/or a protein chosen from the group of, e.g., superoxide dismutase, peptides, DNA, and UDP-glucose. Thus, a gel contained Brij-721 2.4, Volpo S72 2.6, Prostearyl-15 8.0, beeswax 0.5, Abil ZP2434 3.0, propylene glycol 3.0, Carbopol-941 0.25, triethanolamine 0.25, superoxide dismutase 0.00025, Elafin 0.00005, and DNA 1.00, and water qs to 100%.			
IT	58-97-9, UMP, biological studies 61-19-8, AMP, biological studies RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (cosmetic compns. containing peptides or proteins for treatment of photoinduced skin aging)			
RN	58-97-9 HCAPLUS			
CN	5'-Uridylic acid (CA INDEX NAME)			

Absolute stereochemistry.



RN 61-19-8 HCAPLUS
CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 13 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:244035 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 140:356233

TITLE: Taste Quality of Monaschal Adlay

AUTHOR(S): Tseng, Yu-Hsiu; Yang, Joan-Hwa; Chang, Hui-Ling; Mau, Jeng-Leun

CORPORATE SOURCE: Department of Food Science, National Chung-Hsing University, Taichung, Taiwan, 402, Peop. Rep. China

SOURCE: Journal of Agricultural and Food Chemistry (2004), 52(8), 2297-2300
CODEN: JAFCAU; ISSN: 0021-8561

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Monascus purpureus was inoculated into cooked adlay, and a new product was produced after fungal fermentation. Contents of crude ash, fat, fiber, and protein in the inoculated products [monaschal polished adlay (MPA) and monaschal dehulled adlay (MDA)] were much higher than those in the uninoculated controls [polished adlay (PA) and dehulled adlay (DA)]. Only carbohydrate content was notably higher in DA and PA. The three soluble sugars and polyol found were arabinol, galactose, and glucose. The contents of total soluble sugars and polyol were in the descending order of DA .apprx. PA (79.6 and 79.1 mg/g, resp.) > MDA (59.8 mg/g) > MPA (53.5 mg/g). The total free amino acid contents ranged from 8.60 to 14.11 mg/g and occurred in the descending order of MDA .apprx. MPA > DA > PA. Contents of bitter components (4.07-7.61 mg/g) were high as compared to monosodium glutamate-like and sweet components, in the descending order of MDA .apprx. MPA > DA > PA. No flavor 5'-nucleotides were found. On the basis of the results obtained, monaschal adlay products might give a bitter perception.

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 14 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:818240 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 139:296572

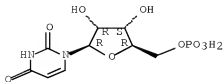
TITLE: Composition containing purine an pyrimidine nucleic acid-related substances for promoting cell proliferation

INVENTOR(S): Kawamura, Mitsuki; Shinohara, Shigeo

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

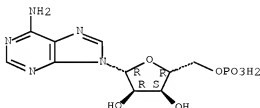
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003084485	A1	20031016	WO 2003-JP4247	20030403
W: AU, BR, CA, CN, ID, IN, JP, KR, PH, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
CA 2480080	A1	20031016	CA 2003-2480080	20030403
AU 2003220857	A1	20031020	AU 2003-220857	20030403
EP 1498101	A1	20050119	EP 2003-715748	20030403
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
BR 2003009127	A	20050201	BR 2003-9127	20030403
CN 1646078	A	20050727	CN 2003-808030	20030403
TW 260225	B	20060821	TW 2003-92108012	20030408
IN 2004DN02911	A	20070525	IN 2004-DN2911	20040928
US 20050222076	A1	20051006	US 2004-510738	20041012
PRIORITY APPLN. INFO.:				
			JP 2002-106300	A 20020409
			WO 2003-JP4247	W 20030403
AB	It is intended to provide a method of effectively exerting the cell proliferation promoting effect of a purine nucleic acid-related substance. Namely, disclosed are a composition for cell proliferation characterized by containing a purine nucleic acid-related substance and a pyrimidine nucleic acid-related substance; a method of potentiating the cell proliferation promoting effect of a purine nucleic acid-related substance characterized by using a combination of the purine nucleic acid-related substance with a pyrimidine nucleic acid-related substance; and a method of promoting cell proliferation characterized by using a combination of a purine nucleic acid-related substance with a pyrimidine nucleic acid-related substance and applying the same to the skin or mucosa. The effect of adenosine monophosphate disodium salt in combination with uridine monophosphate disodium salt on cultured human keratinocyte proliferation was examined. A cosmetic lotion containing adenosine monophosphate disodium salt 3, uridine monophosphate disodium salt 0.1, polyoxyethylene hydrogenated castor oil 0.7, ethanol 5, glycerin 2, preservative 0.2, fragrance/pH adjuster q.s., and water balance to 100 % was formulated.			
IT	58-97-9, Uridine phosphate, biological studies 61-19-E, Adenosine phosphate, biological studies RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (composition containing purine an pyrimidine nucleic acid-related substances for promoting cell proliferation)			
RN	58-97-9 HCAPLUS			
CN	5'-Uridylic acid (CA INDEX NAME)			

Absolute stereochemistry.



RN 61-19-8 HCAPLUS
 CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 15 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:733040 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 139:245028

TITLE: Nucleotide-containing seasoning compositions for imparting umami taste in food products.

INVENTOR(S): Labrunie, Thierry; Henry, Sylvie; Affolter, Michael; Schlichtherle-Cerny, Hedwig

PATENT ASSIGNEE(S): Societe des Produits Nestle S. A., Switz.

SOURCE: Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1344459	A1	20030917	EP 2002-75957	20020312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2003075684	A1	20030918	WO 2003-EP2593	20030310
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				

BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 AU 2003219047 A1 20030922 AU 2003-219047 20030310
 PRIORITY APPLN. INFO.: EP 2002-75957 A 20020312
 WO 2003-EP2593 W 20030310

AB Seasoning composition useful for imparting umami taste to food products comprising a mixture of nucleotide and organic acids or salts thereof. The seasoning composition according to the present invention may be used to complement or replace, at least partially MSG in food preparation

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 16 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2001:823101 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 135:343716
 TITLE: Immunostimulant compositions containing nucleic acids useful for foods and beverages
 INVENTOR(S): Nagafuchi, Shinya; Takahashi, Takeshi; Totsuka, Mamoru; Hachimura, Satoshi; Yajima, Koji; Kuwata, Tamotsu; Uenogawa, Shuichi
 PATENT ASSIGNEE(S): Meiji Milk Products, Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001314172	A	20011113	JP 2000-131406	20000428
JP 4010390	B2	20071121		

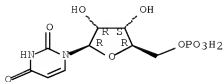
PRIORITY APPLN. INFO.: JP 1999-266139 A 19990920
 JP 2000-57507 A 20000302

AB Immunostimulant compns. contain nucleic acid compns. as active ingredients. Oral intake of the compns. increases the ratios of intestinal intraepithelial TCR $\gamma\delta$ + T lymphocyte subsets, enhances production of IFN- γ , IL-2, IL-7, and TGF- β in small intestinal epithelial cells and production of IL-12 in macrophages and splenocytes, and induces antigen-specific IgA antibodies. Formulation examples are given for infant formula, tablets, infusions, milk, cosmetics, and ointments containing nucleic acids, nucleotides, nucleosides, and/or nucleic acid bases.

IT 58-97-9, Uridylic acid, biological studies
 61-19-8, Adenylic acid, biological studies
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (immunostimulant compns. containing nucleic acids for foods, beverages, nutritional formula, and cosmetics)

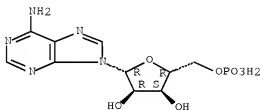
RN 58-97-9 HCAPLUS
 CN 5'-Uridylic acid (CA INDEX NAME)

Absolute stereochemistry.



RN 61-19-8 HCAPLUS
 CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L25 ANSWER 17 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2001:31675 HCAPLUS Full-text
 DOCUMENT NUMBER: 134:83111
 TITLE: Methods and compositions for assaying analytes
 INVENTOR(S): Yuan, Chong-Sheng
 PATENT ASSIGNEE(S): General Atomics, USA
 SOURCE: PCT Int. Appl., 187 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001002600	A2	20010111	WO 2000-US18057	20000630
WO 2001002600	A3	20020110		
WO 2001002600	A9	20020725		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6376210	B1	20020423	US 1999-347878	19990706
CA 2377665	A1	20010111	CA 2000-2377665	20000630
GB 2368641	A	20020508	GB 2002-425	20000630
GB 2368641	B	20041006		

PRIORITY APPLN. INFO.:
 US 1999-347878 A 19990706
 US 1999-457205 A 19991206

WO 2000-US18057 W 20000630

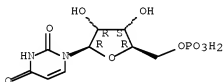
AB Comps. and methods for assaying analytes, preferably, small mol. analytes are provided. Assay methods employ, in place of antibodies or mols. that bind to target analytes or substrates, modified enzymes, called substrate trapping enzymes. These modified enzymes retain binding affinity or have enhanced binding affinity for a target substrate or analyte, but have attenuated catalytic activity with respect to that substrate or analyte. The modified enzymes are provided. In particular, mutant S-adenosylhomocysteine (SAH) hydrolases, substantially retaining binding affinity or having enhanced binding affinity for homocysteine or S-adenosylhomocysteine but having attenuated catalytic activity, are provided. Conjugates of the modified enzymes and a facilitating agent, such as agents that aid in purification or linkage to a solid support are also provided.

IT 58-97-9, Gmp, analysis 61-19-8, Amp,
analysis
RL: ANT (Analyte); ANST (Analytical study)
(methods and comps. for assaying analytes)

RN 58-97-9 HCAPLUS

CN 5'-Uridylic acid (CA INDEX NAME)

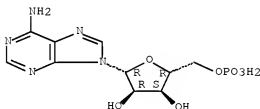
Absolute stereochemistry.



RN 61-19-8 HCAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L25 ANSWER 18 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:672733 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 125:299781

ORIGINAL REFERENCE NO.: 125:56111a,56114a

TITLE: Alpha-glucosidase inhibitor, composition principally comprising sugar and containing the same, sweetener, food and feed

INVENTOR(S): Tsukada, Masayuku; Takeda, Hiroyuki; Maeda, Norio; Fukumori, Yasunori; Shiomi, Norio; Onodera, Shuichi; Fujisawa, Takuji

PATENT ASSIGNEE(S): Hokuren Nogyo Kyodo Kumiai Rengokai, Japan
 SOURCE: Eur. Pat. Appl., 23 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 738475	A1	19961023	EP 1996-102417	19960217
R: BE, DE, DK, FR, GB, IT, NL				
JP 08289783	A	19961105	JP 1995-119163	19950420
JP 3580900	B2	20041027		
US 5840705	A	19981124	US 1996-604563	19960221
AU 9650783	A	19961031	AU 1996-50783	19960418
CA 2174602	A1	19961021	CA 1996-2174602	19960419
PRIORITY APPLN. INFO.:			JP 1995-119163	A 19950420

AB This invention relates an α -glucosidase inhibitor mildly inhibiting α -glucosidase locally present in the micro-villus of the small intestine, a composition principally comprising sugar and containing the inhibitor, a food, a sweetener and a feed. The inhibitor delays the digestion of starch, starch-derived oligosaccharides and sucrose, so that the inhibitor has an action of suppressing rapid increase in blood glucose level and an action of suppressing insulin secretion at a lower level. Thus, the inhibitor is useful for the prophylaxis of obesity and diabetes mellitus. The α -glucosidase inhibitor of the present invention is composed of nucleotide, nucleoside, or base as the structural component of nucleic acid and one or two or more digestible sugars selected from sucrose, starch and starch-derived oligosaccharides. The α -glucosidase inhibitor mildly inhibits the action of α -glucosidases as a digestive enzyme in the small intestine, and has the effect of suppressing rapid increase in blood glucose level and suppressing insulin secretion at a lower level. In combination with digestible sugars, the α -glucosidase inhibitor is applicable as a food, sweetener or feed.

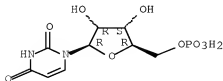
IT 58-97-9, Uridylic acid, biological studies
 61-19-8, Adenylic acid, biological studies
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(composition containing α -glucosidase inhibitor for use in preventing obesity and diabetes)

RN 58-97-9 HCAPLUS

CN 5'-Uridylic acid (CA INDEX NAME)

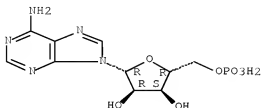
Absolute stereochemistry.



RN 61-19-8 HCAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L25 ANSWER 19 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1996:231970 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 124:270607
 ORIGINAL REFERENCE NO.: 124:49883a,49886a
 TITLE: Pharmaceutical compositions containing nucleotides and extracts of plants or other natural products for allergy or autoimmune disease
 INVENTOR(S): Fukushima, Makoto; Kosuge, Takuo
 PATENT ASSIGNEE(S): Pola Kasei Kogyo Kk, Japan; Pola Chemical Industries, Inc.
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08040921	A	19960213	JP 1994-180240	19940801
JP 3769036	B2	20060419		

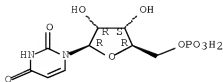
PRIORITY APPLN. INFO.: JP 1994-180240 19940801

AB Pharmaceutical compns. for allergy or autoimmune disease contain nucleotides or their physiol. acceptable salts and exts. of plants (such as Ligusticum wallichii and Salvia miltiorrhiza) or other natural products. As an example, granules were formulated containing L. wallichii extract 20, sodium inosine-5'-phosphate 30, lactose 30, crystalline cellulose 10, hydroxypropyl cellulose 8, and aluminum stearate 2 weight parts. The prepn. were clin. tested and results were satisfactory.

IT 58-97-9, Uridylic acid, biological studies
 61-19-8, Adenylic acid, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Pharmaceutical compns. containing nucleotides and exts. of plants or other natural products for allergy or autoimmune disease)

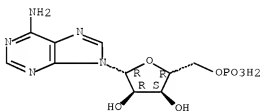
RN 58-97-9 HCAPLUS
 CN 5'-Uridylic acid (CA INDEX NAME)

Absolute stereochemistry.



RN 61-19-8 HCAPLUS
CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L25 ANSWER 20 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:64688 HCAPLUS Full-text

DOCUMENT NUMBER: 124:144198

ORIGINAL REFERENCE NO.: 124:26822h,26823a

TITLE: The chemical composition of persimmon (Diospyros kaki, Thunb) leaf tea

AUTHOR(S): Joung, Seon-Young; Lee, Soo-Jung; Sung, Nak-Ju; Jo, Jong-Soo; Kang, Shin-Kwon

CORPORATE SOURCE: Dep. Food and Nutrition, Gyeongsang Natl. Univ., Jinju, 660-701, S. Korea

SOURCE: Han'guk Yongyang Siklyong Hakhoechi (1995), 24(5), 720-6

CODEN: HYSHDL; ISSN: 0253-3154

PUBLISHER: Korean Society of Food and Nutrition

DOCUMENT TYPE: Journal

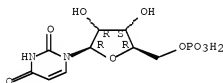
LANGUAGE: Korean

AB Chemical components relevant to the characteristic taste of the Korean native persimmon (Diospyros kaki) leaf tea were analyzed. Samples were processed by using three different methods; SHT (steamed and then hot-air dried), DHT (dried in the shade, steamed and then hot-air dried) and RHT (roasted and then hot-air dried). The components analyzed were general compns. of dried persimmon leaves and extracted solution. The composition of moisture, ash, crude lipid and total nitrogen did not show significant variation among different processing methods of the persimmon leaf tea. The contents of caffeine, tannin and vitamin C in persimmon leaf tea were in the range of 178.4-209.8 $\mu\text{mol/g}$, 29.1-38.5 mg% and 325.3-2084.7 mg%, resp. The vitamin C content was significantly higher in the RHT than other treatments. The contents of caffeine, tannin and vitamin C in the tea extracted solution were in the range of 101.5-130.1 $\mu\text{mol/g}$, 15.4-25.9 mg% and 111.0-1274.3 mg%, resp. The vitamin C in the tea solution was the highest in the RHT treatment and 61.1% of vitamin C in the leaf tea was extracted out in these processing methods. The major amino acids contained in the leaf tea were in decreasing

order glutamic acid, aspartic acid, leucine and phenylalanine, these four amino acids consisting 38.9-39.8% of the total amino acid contained in the persimmon leaf tea. The major amino acids contained in the tea solution were glutamic acid, proline, histidine and arginine. Six kinds of 5'-nucleotides, CMP, AMP, UMP, IMP, GMP and hypoxanthine were detected and CMP was the most abundant component in the fresh leaf, leaf tea and tea solution. The second highest 5'-nucleotides in both leaf tea and tea solns. were GMP, AMP and UMP in all processing method. The highest free sugar contained in the fresh leaf tea and tea solution was sucrose.

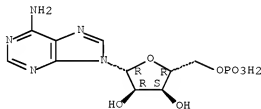
IT 58-97-9, 5'-UMP, biological studies
 61-19-8, 5'-AMP, biological studies
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified);
 BIOL (Biological study); OCCU (Occurrence)
 (composition of persimmon (Diospyros kaki) leaf tea)
 RN 58-97-9 HCAPLUS
 CN 5'-Uridylic acid (CA INDEX NAME)

Absolute stereochemistry.



RN 61-19-8 HCAPLUS
 CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.

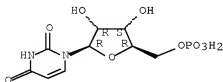


L25 ANSWER 21 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:795198 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 123:179519
 ORIGINAL REFERENCE NO.: 123:31755a,31758a
 TITLE: Method of enhancing the human immune system
 INVENTOR(S): Masor, Marc Leif; Hilty, Milo Duane
 PATENT ASSIGNEE(S): Abbott Laboratories, USA
 SOURCE: PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9518547	A1	19950713	WO 1995-US85	19950105
W: AU, CA, JP, MX, NZ				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5602109	A	19970211	US 1994-178686	19940110
CA 2180465	A1	19950713	CA 1995-2180465	19950105
AU 9515977	A	19950801	AU 1995-15977	19950105
AU 707926	B2	19990722		
EP 739169	A1	19961030	EP 1995-907976	19950105
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 10507439	T	19980721	JP 1995-518576	19950105
JP 3335360	B2	20021015		
PRIORITY APPLN. INFO.:			US 1994-178686	A 19940110
			WO 1995-US85	W 19950105
<p>AB An improved enteral nutritional formula containing nucleotide equivalent (RNA, mono-, di- and triphosphate nucleotides, nucleosides and adjuncts such as activated sugars) at a level of at least 10 mg/100 Kcal of formula is disclosed. The formula comprises carbohydrates, lipids, proteins, vitamins and minerals and four (4) nucleotide equivalent at specific levels and ratios. The invention also discloses novel methods of production and anal. techniques. This invention also provides a dietary formula that enhances the immune system and alleviates diarrhea.</p>				
<p>L25 ANSWER 22 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN</p> <p>ACCESSION NUMBER: 1995:184719 HCAPLUS Full-text</p> <p>DOCUMENT NUMBER: 122:79580</p> <p>ORIGINAL REFERENCE NO.: 122:15119a,15122a</p> <p>TITLE: Contents of nucleotides, organic acids and sugars as well as some physical properties of sufus prepared with different starter</p> <p>AUTHOR(S): Hwan, Chyong Hsyuan; Chou, Cheng Chun</p> <p>CORPORATE SOURCE: Graduate Institute of Food Science and Technology, National Taiwan University, Taipei, Taiwan</p> <p>SOURCE: Shipin Kexue (Taipei, Taiwan) (1994), 21(2), 124-33</p> <p>CODEN: SPKHE6; ISSN: 0253-8997</p> <p>DOCUMENT TYPE: Journal</p> <p>LANGUAGE: Chinese</p> <p>AB Sufu, a Chinese traditional fermented appetizer, was prepared by using Actinomucor taiwanensis or Actinomucor elegans as starter and aging in brine solution (12%) with or without alc. (10%). After 75-day aging, contents of nucleotides in sufus were low and varied with the starters used. Among the organic acids tested, oxalic acid and citric acid showed the highest contents in all of the sufus prepared. Glucose, the dominant sugar in sufus, and soluble solid content increased gradually during the aging period. Hardness decreased gradually during aging. Sufu prepared with A. taiwanensis showed a higher soluble solid content and hardness after 75-day of aging. In general, the color of sufus appeared yellow-brownish. However, sufus prepared with A. elegans showed a red-brownish color. Among the four kinds of exptl. sufus prepared, the product prepared with A. elegans and aged in brine solution containing alc. got the best score in sensory evaluation.</p> <p>IT 58-97-3, 5'-UMP, biological studies</p> <p>61-19-8, 5'-AMP, biological studies</p> <p>RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)</p> <p>(sufu composition and phys. properties response to starter and</p>				

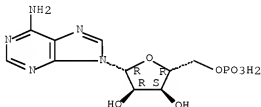
aging in brine containing alc.)
 RN 58-97-9 HCAPLUS
 CN 5'-Uridylic acid (CA INDEX NAME)

Absolute stereochemistry.



RN 61-19-8 HCAPLUS
 CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L25 ANSWER 23 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:578242 HCAPLUS Full-text

DOCUMENT NUMBER: 121:178242

ORIGINAL REFERENCE NO.: 121:32363a,32366a

TITLE: Influence of ultrasonication on rehydration of dried shiitake mushrooms

AUTHOR(S): Kimura, Tomoko; Sugahara, Tatsuyuki; Fukuya, Yoko; Kagaya, Mieko

CORPORATE SOURCE: Sch. Life Stud., Sugiyama Jogakuen Univ., Nagoya, 464, Japan

SOURCE: Nippon Kasei Gakkaishi (1994), 45(7), 585-93

CODEN: NKGAE; ISSN: 0913-5227

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB Dried shiitake mushrooms were rehydrated with ultrasonic-irradiation in search for rational rehydration methods. Its effects on the texture properties and the preference test were studied. The following results were obtained; water absorption by the shiitake mushrooms, the color of yellowing of the rehydration liquid and its browning were greater with ultrasonic-irradiation than in the control without the irradiation. The irradiated shiitake mushrooms had less hardness and gumminess and were softer. Irradiation time was 20 min and total immersion time was 2 h for Jyodonko and 1 h for Jyokoshin at 5° and 25° which are within a suitable rehydration range. Under these conditions, water absorption reached 90% of the maximum and the shiitake mushrooms scored high preference points in such properties as softness and gumminess. Irradiation slightly affected on the content of RNA and the composition of 5'-

GMP, 5'-AMP, 5'-UMP, 5'-CMP and free amino acids in steam-cooked shiitake mushrooms.

L25 ANSWER 24 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1981:403468 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 95:3468

ORIGINAL REFERENCE NO.: 95:699a,702a

TITLE: Relationships between nucleic acid, nitrogen, and growth rate of tobacco cells in suspension culture

AUTHOR(S): Kato, Akira; Asakura, Akiko

CORPORATE SOURCE: Cent. Res. Inst., Japan Tob. and Salt Public Corp., Yokohama, 227, Japan

SOURCE: European Journal of Applied Microbiology and Biotechnology (1981), 12(1), 53-7

CODEN: EJABDD; ISSN: 0171-1741

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Changes in the amount of nucleic acid and the relation between these amts. and the growth rate of tobacco cells (Nicotiana tabacum cv Bright Yellow-2) at different initial N concns. in the medium were examined in batch cultures. During culture in basal medium, the amount of intracellular nucleic acid expressed per unit of dry biomass was 36.3 mg RNA g⁻¹ cell and 8.1 mg DNA g⁻¹ cell at the beginning of batch culture. These values increased 2.5-fold for RNA and 1.5-fold for DNA during the exponential growth phase and then gradually decreased with the decline in the growth rate. Similar changes were also observed in the medium containing less N. The specific growth rate, μ (day⁻¹), of the culture corresponded to the magnitude of the intracellular RNA content (mg RNA g⁻¹ cell), and the linear relation $\text{RNA} = 38 \mu + 23$ was obtained. In addition, there were marked pos. correlations between the total and protein N, and μ of the cultures. The mononucleotide composition of total RNA (AMP + UMP)/(GMP + CMP) which was suggested to be a convenient index of metabolic activity was nearly constant (0.78-0.80) during tobacco cell culture in the basal medium.

L25 ANSWER 25 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1978:148875 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 88:148875

ORIGINAL REFERENCE NO.: 88:23435a,23438a

TITLE: Effects of nucleic acid compounds on viability and cell composition of Bdellovibrio bacteriovorus during starvation

AUTHOR(S): Hespell, R. B.; Mertens, M.

CORPORATE SOURCE: Dep. Dairy Sci., Univ. Illinois, Urbana, IL, USA

SOURCE: Archives of Microbiology (1978), 116(2), 151-9

CODEN: AMICCW; ISSN: 0302-8933

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The effects of various exogenous nucleic acid compds. on the viability and cell composition of B. bacteriovorus starved in buffer were measured. These compds. decreased the rate of loss of viability and the loss of cell C, cell RNA, and cell protein in the following decreasing order of effectiveness: glutamate > ribonucleoside monophosphates > ribonucleosides > deoxyribonucleoside monophosphates. Similar sparing effects were not observed with nucleic acid bases, deoxyribonucleosides, ribose, ribose 5-phosphate, deoxyribose, and deoxyribose 5-phosphate. Appreciable increases in the respiration rate over the endogenous rate did not occur when cell suspensions

were incubated with individual or mixts. of nucleic acid compds. Formation of $^{14}\text{CO}_2$ by cell suspensions incubated with ^{14}C -labeled nucleic acid compds. indicated ribonucleosides and ribonucleoside monophosphates were respired and, to a small extent, were incorporated into cell material of nongrowing cells. The respired $^{14}\text{CO}_2$ was derived mainly from the ribose portion of these mols. No respired $^{14}\text{CO}_2$ or incorporated ^{14}C was found with bdellovibrios incubated with other nucleic acid compds. tested, including free ribose. During growth of *B. bacteriovorus* on *Escherichia coli* in the presence of exogenous ribonucleoside monophosphates uniformly labeled with ^{14}C , 10-16% of the radioactivity was in the respired CO_2 , and of the radioactivity incorporated into the bdellovibrios, only 40-50% resided in the cell nucleic acids. However, during growth on *E. coli* labeled with ^{14}C -labeled adenine, uracil, or thymidine, only trace amts. of $^{14}\text{CO}_2$ were found, and $\geq 90\%$ of the incorporated radioactivity was in the bdellovibrio nucleic acids. Apparently, bdellovibrio can use ribonucleoside monophosphates during growth and starvation as biosynthetic precursors for synthesis of both nucleic acids and other cell materials as well as catabolizing the ribose portion for energy purposes.

IT 58-97-9, biological studies 61-19-8, biological studies

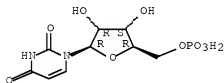
RL: BIOL (Biological study)

(Bdellovibrio bacteriovorus cell composition and viability response to, during starvation)

RN 58-97-9 HCAPLUS

CN 5'-Uridylic acid (CA INDEX NAME)

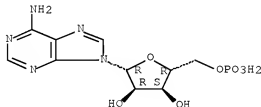
Absolute stereochemistry.



RN 61-19-8 HCAPLUS

CN 5'-Adenylic acid (CA INDEX NAME)

Absolute stereochemistry.



L25 ANSWER 26 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1974:130053 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 80:130053

ORIGINAL REFERENCE NO.: 80:20956h,20957a

TITLE: Two-dimensional polyacrylamide gel electrophoresis separation of low molecular weight nuclear RNA

AUTHOR(S): Reddy, Ramachandra; Sitz, Thomas O.; Ro-Choi, Tae Suk;
 Busch, Harris
 CORPORATE SOURCE: Dep. Pharmacol., Baylor Coll. Med., Houston, TX, USA
 SOURCE: Biochemical and Biophysical Research Communications
 (1974), 56(4), 1017-22
 CODEN: BBRC9; ISSN: 0006-291X
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Two-dimensional electrophoresis successively on 10%, pH 7.2, and 12%, pH 3.3, polyacrylamide gels was used to sep. nuclear and whole cell 4-8S RNA fractions from Novikoff hepatoma ascites cells into individual RNA species. With this method, anal. studies were possible on 2 new species of RNA referred to as 4.2S RNA and 4.5S RNAII, resp. The 4.2S RNA has the nucleotide composition AMP, 18.0; UMP, 23.9; GMP, 27.9; and CMP 26.7%. This RNA contains ψ MP residues and an alkali stable dinucleotide. The 4.5S RNAII was distinctly separated from 4.5S RNAI UMP, and 4.5S RNAIII and has the nucleotide composition AMP, 20.6; UMP, 23.7; GMP, 30.0; and CMP, 25.7%. It has no ψ MP or 2'-O-methylated nucleotides. In addition, several other spots were separated from the major RNA species.

L25 ANSWER 27 OF 27 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1968:425133 HCAPLUS Full-text
 DOCUMENT NUMBER: 69:25133
 ORIGINAL REFERENCE NO.: 69:4671a,4674a
 TITLE: Patterns of nucleic acid synthesis in normal and crown
 gall tumor tissue cultures of tobacco
 AUTHOR(S): Srivastava, B. I. Sahai
 CORPORATE SOURCE: Roswell Park Mem. Inst., Buffalo, NY, USA
 SOURCE: Archives of Biochemistry and Biophysics (1968),
 125(3), 817-23
 CODEN: ABBIA4; ISSN: 0003-9861
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The bacteria-free crown gall tumor tissue cultures of tobacco were 40-90% higher in nucleic acid content and ≤ 10 -15 times higher in the capacity to incorporate 32 P into RNA than the normal tissue cultures. Examination of the 32 P sedimentation profile of rapidly labeled nucleic acids from normal and tumor tissue cultures (12-42 days old) suggested some differences between the normal tissue and the tumor tissue, although the profiles also changed with the culture age. Since the 32 P nucleotide composition (AMP + UMP = 54-58%) of total RNA and of different RNA fractions, obtained by d.-gradient centrifugation, was similar to DNA (A + T = 61%) rather than ribosomal RNA (AMP + UMP = 44%), the RNA labeled with 32 P was considered to represent principally mRNA. Both the absorbance and the 32 P nucleotide compns. of total RNA from normal tissue were similar to those from tumor tissue, and, generally, consistent differences in the 32 P nucleotide compns. of different RNA fractions from normal and tumor tissue were not very apparent.

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L3      2 SEA ABB=ON PLU=ON "URIDINE MONOPHOSPHATE"/CN OR "URIDINE
        MONOPHOSPHATE SODIUM SALT"/CN

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        SET SMARTSELECT OFF

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L6      102637 SEA ABB=ON PLU=ON L5 OR ADENOSINE(A)MONOPHOSPHATE

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L8      8105 SEA ABB=ON PLU=ON L7
L9      8119 SEA ABB=ON PLU=ON L8 OR (UDRIDINE OR URIDINE) (A)MONOPHOSPHATE
L11     2375343 SEA ABB=ON PLU=ON COMPOSITION/CV OR COMPOSITION
L15     190 SEA ABB=ON PLU=ON L6(L) L9(L) L11
L16     183 SEA ABB=ON PLU=ON L15 AND PD=<MAY 9, 2002
L17     9 SEA ABB=ON PLU=ON L16 AND PATENT/DT
        D STAT QUE L17
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L22     2438 SEA ABB=ON PLU=ON L6(5A) COMPOSITION
L23     66 SEA ABB=ON PLU=ON L9(5A) COMPOSITION
L24     31 SEA ABB=ON PLU=ON L22 AND L23
L25     27 SEA ABB=ON PLU=ON L24 NOT L17
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        D IBIB ABS HITSTR L25 1-27

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FILE HOME

FILE HCAPLUS

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 FILE LAST UPDATED: 29 Jun 2008 (20080629/ED)

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FILE REGISTRY

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DICTIONARY FILE UPDATES: 29 JUN 2008 HIGHEST RN 1031692-95-1

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